INTERNATIONAL JOURNAL OF COMPARATIVE PSYCHOLOGY

Volume 4, Number 1

Introduction 3

A Changing Focus of Animal Perception—From Abilities to Proclivities 5
Cynthia A. Prosen, David B. Moody, and William C. Stebbins

Social Signals Analyzed at the Single Cell Level: Someone is Looking at Me, Something Touched Me, Something Moved! 25
D.I. Perrett, M.H. Harries, A.J. Mistlin, J.K. Hietanen, P.J. Benson, R. Bevan, S. Thomas, M.W. Oram, J. Ortega, and K. Brierley

Perception of Species-specific Vocalizations by Isolate-reared Budgerigars (*Melopsittacus undulatus*) 57
Robert J. Dooling, Thomas J. Park, Susan D. Brown, and Kazuo Okanoya

The Perception of Complex Acoustic Patterns in Noise by Blue Monkey (*Cercopithecus mitis*) and Human Listeners 79
Charles H. Brown and Joan M. Sinnott

Human Infants' Perception of Auditory Patterns 91
Sandra E. Trehub

Timing Behavior and Development: Comments on Some Animal and Human Data 111
Helga Lejeune and Marc Richelle

Erratum 137

INTERNATIONAL JOURNAL OF COMPARATIVE PSYCHOLOGY

Volume 4, Number 2

A Comparison of Song Syllable Perception by Five Species of Birds 141
Michel L. Kreutzer, Robert J. Dooling, Susan D. Brown, and Kazuo Okanoya

Effects of Differentially Reinforced Pre-exposure on Simultaneous Odour Discrimination Learning in the Albino and Pigmented Rat (*Rattus norvegicus*) 157
J.A. Bell and P.J. Livesey

The Relationship Between Social Behavior and Genital Swelling in Captive Female Chimpanzees: Implications for Managing Chimpanzee (*Pan troglodytes*) Groups 171
M.A. Bloomsmith, S.P. Lambeth, and P.L. Alford

BOOK REVIEWS

Spontaneous Alternation Behavior 185
Edited by W.N. Dember and C.L. Richman
Reviewed by Mauricio R. Papini

Cognitive Ethology: The Minds of Other Animals 188
Edited by Carolyn A. Ristau
Reviewed by Emanuela Prato Previde

INTERNATIONAL JOURNAL OF COMPARATIVE PSYCHOLOGY

Volume 4, Number 3

Wavelength Categorization by Goldfish (*Carassius auratus*) 195
Marjorie Goldman, Robert Lanson, and Gabriela Rivera

Dominance Behavior in Asexual Gecko, *Lepidodactylus lugubris*, and its Possible Relationship to Calcium 211
Susan G. Brown, Linda K. Osbourne, and Maile A. Pavao

Boxing in Red Kangaroos, *Macropus Rufus*: Aggression or Play? 221
David B. Croft and Fiona Snaith

INTERNATIONAL JOURNAL OF COMPARATIVE PSYCHOLOGY

Volume 4, Number 4

Influence of Nonobvious Learning on the Development of the Approach Response in Chicks (*Gallus gallus*) 239
M. Delsaut

Behavioural Screening and Selection Through Affinity: The Case of Polygyny in Paper Wasps (*Polistes dominulus*) 253
Jacques Gervet and Guy Theraulaz

Maternal Behaviour in Domestic Hens (*Gallus gallus domesticus*): Cues from Chicks and Maintenance of Maternal Responsiveness 275
Marie-Annick Richard-Yris and Lounes Chikhi

Acknowledgment of Reviewers 287